REFERENCES

1. Ahmad F, Azevedo JL, Cortright R, Dohm GL and Goldstein BJ (1997). Alterations in skeletal muscle protein-tyrosine phosphatase activity and expression in insulin resistant human obesity and diabetes. *J Clin Invest*; **100**:449-458.
2. Anna Del Prete, Antonella Scalera,Maddalena Diana Iadevaia,AgneseMiranda, Claudio Zulli, Laura Gaeta, Concetta Tuccillo,Alessandro Federico, and Carmelina Loguercio(2012).Herbal Products: Benefits, Limits, and Applications in Chronic Liver Disease. Hindawi Publishing Corporation Evidence-Based Complementary and Alternative Medicine Volume, Article ID 837939, 19 pages doi:10.1155/2012/837939
3. Annapurna A, Kanaka R, Mahalakshmi D, and Murali Krishna K (2001). Antidiabetic activity of a polyherbal preparation (tincture of punchparna) in normal and diabetic rats. *Indian J Exp Biol*; **39**:500-502.
4. Anonymous (1980). The WHO Expert Committee on Diabetes Mellitus. Technical Report Series 646, Geneva, and World Health Organisation.
5. Arumugam G ,P.Manjula and N Paari (2013). A review: Anti diabetic medicinal plants used for diabetes mellitus. *Journal of Acute Disease*:196-200.
6. Bailey CJ and Day C (1989). Traditional treatments for diabetes. *Diab Care*; **12**:553-564.
7. Bergmeyer, H. U., Horder, M. and Rey, J (1986a). Approved recommendation on IFCC methods for the measurement of catalytic enzymes. Part 2: IFCC method for aspartate aminotransferase. *Journal of Clinical Chemistry and Clinical Biochemistry;* **24**: 497–510.
8. Bhakti bajpai, shridhar patil (2008). A new approach to microbial production of gallic acid: *Brazilian Journal of Microbiology*; **39**:708-711.
9. Bhattacharya SK, Satyan KS and Chakrbarti A (1997). Effect of Trasina, an Ayurvedic herbal formulation, on pancreatic islet superoxide dismutase activity in hyperglycaemic rats. *Indian J Exp Biol*; **35**:297-299.
10. Castelli WP, Anderson K, Wilson PW and Levy D (1992). Lipid risk of coronary heart disease: The Framingham Study. *Ann Epidemiol*; **2:** 23-28.
11. Chandel H.S., A. pathak and M. tailing (2011). Polyherbal formulations for anti diabetic therapy: *Int J Pharm Pharm Sci;**(3)3**:226-228.*
12. Chang C., Yang M., Wen H. and J. Chern (2002). Estimation of total flavonoids content in Propilis by two complementary colorimetric methods. *J. Food Drug Analysis*; **10:** 178-182.
13. Clairborne A (1985). Catalase activity. In: Greenwald R.A. (ed).CRC handbook of methods for oxygen radical research.CRC Press Inc.Boca Raton, Florida, USA; **(1):**283-284.
14. Dahanukar S.A., R.A. kulkarni and N.N. rege (2000) *Indian Journal of Pharmacology* ; **32**: 81-118.

15. Dhiraj A Vattem PhD, Reza Ghaedian PhD and Kalidas Shetty PhD (2005). Enhancing health benefits of berries through phenolic antioxidant enrichment: focus on cranberry: *Asia Pac J Clin Nutr ;**14 (2):**120-130.*
16. Duckstein SM,Lorenz P and Stinzing FC (2012):*Phytochem Anal.*. doi: 10.1002/pca.2359.
17. Elder C (2004). Ayurveda for diabetes mellitus: a review of the biomedical literature. *Altern Ther Health Med*; **10**:44-50.
18. Elizabeth K. and M. N. A. Rao(1992).Oxygen radical scavenging activity of cur cumin. *Int J.Pharmaceut*; **58(3):** 237-240.
19. El-Naggar, B.E.M, Barto.lkova, L., Iemlaka, M., Vajdlenka.E., Rabi.kova, M. Stranadova, V and Neaas, J (2005). Antidiabetic effect of *Cleome droserifolia* aerial parts:lipid peroxidation–induced oxidative stress indiabetic rats. *Acta Vet Brno;* **74**: 347-352.
20. Farkas G.L. and Z. Kiraly(1962). Role of phenolic compounds in the physiology of plant disease and disease resistance. *Phytopathol*; **44:** 105-150.
21. Ghosh A. K., Bhargava S. N. and R. N. Tandon (1966). Studies on fungal diseases of some tropical fruits. VI. Post infection change in ascorbic acid contents of mango and papaya. *Indian Phytopath*; **19:** 262-266.
22. Hevener A, Reichart D, Janez A and Olefsky J (2007). Female rats do not exhibit free fatty acid–induced insulin resistance. *Diabetes*; **51** 1907-1912.
23. Hideaki Kaneto, Yoshitaka Kajimoto, Jun-ichiro Miyagawa, Taka-aki Matsuoka, Yoshio Fujitani,Yutaka Umayaohara, Toshiaki Hanafusa, Yuji Matsuzawa, Yoshimitsu Yamasaki, and Masatsugu Hori(1999). Beneficial Effects of Antioxidants in Diabetes Possible Protection of Pancreatic b-Cells against Glucose toxicity. *Diabetes*; **48:** 2398-2406.
24. Jayaprakasha G.K., Rao L.J. and K.K. Sakariah (2004).Antioxidant activities of flavidin in different in vitro model systems. *Bioorganic and Medical Chem*; **12(24):** 5141-5146.
25. Jia W, Gao WY and Xiao PG (2003). Antidaibetic drugs of plant origin used in China: Composition, pharmacology and hypoglycaemic mechanisms. *Zhongguo Zhong Yao Za Zhi*; **28**:108-113.
26. Kakkar P, Das B, Viswanathan, P.N (1984). *Indian J Biochem Biophys;* **2:** 130–132
27. Kavishankar G.B. N. Lakshmidevi, S. Mahadeva Murthy,H.S. Prakash and S.R. Niranjana(2011). Diabetes and medicinal plants-A review. *Int J Pharm Biomed*;**2(3)** :65-80.
28. Kumar BD, Mitra A and Manjunatha A (2009). In vitro and In vivo studies of antidiabetic Indian Medicinal Plants; *Journal of Herbal Medicine and Toxicology*; **3 (2)**: 9-14.
29. Law MR (1999). Lowering heart disease risk with cholesterol reduction: evidence from observational studies and clinical trials. *Eur Heart J*; **1**:3-8.
30. Maithani Jyoti, Agarwal Kshitij, Sharma Vivek and Saini Prem (2012). Preparation and Standardization of A Polyherbal Formulation*: J Adv Scient Res; **3(2):** 84-85.*

31. Maiti Debasmita, Mala Majumdar(2012). Impact of Bioprocessing on phenolic content &antioxidant activity of mung seeds to improve hypoglycemic functionality: *International Journal of PharmTech Research*;**4 (3):** 924-931.
32. Marcocci L, Packer L and et al (1994). Antioxidant action of ginkgo biloba extract EGB 761.*Methods Enzymol*; **234:**462-475.
33. Megha Mehta, Dr. U. M. Muddapur and V. G. Shanmuga Priya (2013). Fungal Production of Tannase:A Review. International Journal of Scientific Engineering and Technology;**2(8)** : 752-755
34. Miller CJ, Dunn EV and Hashim IB (2002). Glycemic index of 3 varieties of dates. *Saudi Med J*; **23(5):**536-538.
35. Mitra SK, Gopumadhavan S, Muralidhar TS, Anturlikar SD, Sujatha MB.1996. Effect of a herbomineral preparation D-400 in streptozotocin induced diabetic rats. *J Ethnopharmacol* ; **54**:41-46.
36. Neeraj C and Bhupinder Singh Sekhon (2011). An overview of advances in the standardization of herbal drugs.*J Pharm Educ Res*; **2(2):** 55-70.
37. Nelson N.C (1994). A photometric adaptation of the Somogyi method for determination of glucose. *J. Biol. Chem*; **153:**375-380.
38. Nikam shreya pradeep,Alai Manoj H,Meher deepali and Avinash (2011).Standardization of ayurvedic polyherbal formulation :Antidiabetic churana:*International journal of research in ayurveda and pharmacy*;**2(6):**1793-1794.
39. Nima V.Thakkar,Jagruti A.Patel (2010). Pharmacological evaluation of "Glyoherb": A Polyherbal formulation on streptozobocin-induced Diabetic rats: *Int J.Diab Dev Ctries***; 30(1)**:1-7.
40. Nishimiki M., Rao N.A. and K. Yagi (1972).The occurrence of superoxide anion in the reaction of reduced phenazine methosulphate and molecular oxygen. *Biochem Biophys Res Commun*; **46:**849-853.
41. Ogbonnia S. O, 2Mbaka G. O, Adekunle A, Anyika E. N, Gbolade O. E, and Nwakakwa N (2010). Effect of a poly-herbal formulation, Okudiabet, on alloxan- induced diabetic rats Agric. *Biol. J. N. Am.*; **1(2)**: 139-145
42. Paranthaman Karthikeyan, Gopal Sathiya and Subbramanium Sridhar (2014). regulation of blood glucose concentration by *sugnil*, a traditional siddha polyherbal formulation in streptozotocin - diabetic rats: *World Journal of Pharmacy and Pharmaceutical Sciences*;**3(3) :**1192-1212.
43. Paranthaman, R. Vidyalakshmi,S. Murugesh and K. Singaravadivel(2009). Accelerated Bioconversion of Agricultural By-Products by Supplementation of Tannic Acid in Tannase Production by Aspergillus Oryzae; *Global Journal of Biotechnology & Biochemistry;***4 (1):** 19-24.
44. Pari L and Saravanan G (2002). Antidiabetic effect of coagent db, a herbal drug in alloxan induced diabetes mellitus. *Comp Biochem Physiol. Part C*; **131**:19-25.
45. Pari L, Ramakrishnan R and Venkateswaran S (2001). Antihyperglycaemic effect of Diamed, an herbal formulation in experimental diabetes in rats. *J Pharm Pharmacol*; **53**:1139-1143.

46. Pari, L and Saravanan, R (2004). Antidiabetic effect of Diasulin, an herbal drug, on blood glucose, plasma insulin and hepatic enzymes of glucose metabolism in hyperglycaemic rats. Diabetes, *Obesity and Metabolism;***6 (4)**: 286-291.
47. Posner BM, Cobb JL, Belanger AJ, Cupples LA, D'Agostino RB and Stokes J(1991). Dietary lipid predictors of coronary heart disease in men. The Framingham Study. *Arch Intern Med*; **151**:1181-1187.
48. Rajbir Singh, Bikram Singh, Sukhpreet Singh, Neeraj Kumar, Subodh Kumar and Saroj Arora (2009).Investigation of Ethyl Acetate Extract/Fractions of *Acacia nilotica* willd. Ex Del as Potent Antioxidant; *Rec. Nat. Prod*;**3(3)**: 131-138.
49. Ramachandran S. and P. Sri Divya (2013). Antidiabetic Activity of Polyherbal Extract on Alloxan Induced Diabetic Rats; *European Journal of Biological Sciences*; **5 (2):** 64-67.
50. Rexlin S. M. Shairibha, M. Rajadurai (2012). Effect of Glymin, a Polyherbal Formulation on Lipid Profile and Histopathological Examination in Streptozotocin-Induced Diabetic Rats. *International Journal of Pharmaceutical Sciences and Drug Research*; **4(1)**: 49-55.
51. Rotruck JT, Pope AL, Ganther HL (1984). *Science*, 179:588.
52. Saad Abdulrahman Hussain and Bushra Hasan Marouf (2013). Flavonoids as alternatives in treatment of type 2 diabetes mellitus ; *Academia Journal of Medicinal Plants* ;**1(2)**: 031-036.
53. Saleem S Basha, Mriganka Baruah, Anand Shaker, Suresh Babu Kondaveeti and Satya Narayana (2012). Hypoglycemic and Hypolipidemic effect of *Azadirachta indica* seed oil and Mehani (Polyherbal Formulation) on Alloxan induced Diabetic Albino Rats: *Research Journal of Pharmaceutical, Biological and Chemical* ; **3(4):**239-246.
54. Samreen Riaz (2009). Diabetes Mellitus; Scientific Research and Essay; **4 (5)** 367-373.
55. Senthilvet, G., Jegadeesan, M., Austin, A.,Thirugnanasambanthan, P., Mayisurem, E.,Balasubramanian, M., Narayanan, N and Viswanathan, S (2006). Effect of a poly-herbal formulation (Diarun plus) on Streptozotocin induced experimental diabetes. *Int J Tropical Medicine*; **2**:88-92.
56. Sharma S, Kulkarni SK and Chopra K (2006). Curcumin, the active principle of turmeric (*Curcuma longa*), ameliorates diabetic nephropathy in rats. *Clin Exp Pharmacol Physiol*; **33(10)**:940-945.
57. Shri Kant,M. Sahu, M.D and Sanjeev Sharma(2002).Effect of Diabecon (D-400), an Ayurvedic Herbomineral Formulation on Diabetic Retinopathy: *Indian Journal of Clinical Practice* ;**9(12):** 49-56.
58. Stocks J, Offerman CB, Modell CB and Dormandy TL (1972). The susceptibility to antioxidation of human red cell lipids in health and disease. *Br J Haemotol*; **23(6):** 713-24.
59. Subash Babu P and Prince PSM (2004). Antihyperglycemic and antioxidant effect of hyponidd an ayurvedic herbomineral formulation in streptozotocin induced diabetic rats. *J Pharm Pharmacol*; **56**:1435-1442.

60. Sushruta, K., Satyanarayana, S., Srinivas, N and Sekhar R.J (2006). Evaluation of the blood–glucose reducing effects of aqueous extracts of the selected Umbellifereous fruits used in culinary practice. *Tropical J Pharmaceutical Res*; **5 (2)**: 613-617
61. Taskinen MR (2002). Diabetic dyslipidemia. Atherosclerosis Supplements; **3**:47-51.
62. Tenpe CR and Yeole PG(2009). Comparative evaluation of antidiabetic activity of some marketed polyherbal formulations in alloxan induced diabetic rats.*International Journal of Pharm Tech Research*; **1(1)**: 43-43.
63. Umamaheswari S., Leena Dennis Joseph, J. Srikanth, R. Lavanya,D. Chamundeeswari & C.Uma Maheswara Reddy(2010). Antidiabetic Activity of a Polyherbal Formulation (DIABET*). International Journal of Pharmaceutical Sciences; **2 (1)**:18-22.*
64. Vidyasekharan P. and P.Durairaj (1973).Shot-hole syndrome in mango. *Indian Phytopathology* ; **26:** 49-55.
65. Vijay Viswanathan, Rajesh Kesavan, Kavitha K.V. and Satyavani Kumpatla(2011). A pilot study on the effects of a polyherbal formulation cream on diabetic foot ulcers; *Indian J Med Res* **134**: 168-173.
66. Wais M., IramNazish, Abdus Samad, Beg S.,S Abusufyan., Ajaz A. S. and Mohd Aqil (2012). Herbal Drugs for Diabetic Treatment: An Updated Review of Patents. *Recent Patents on Anti-Infective Drug Discovery;**(7): 1-7.***
67. Walter and B.J (1977). An Introduction to the principles of disease. W.B. Saunders Company. *Philadelphia USA*,pp 374–377.
68. Yamaguchi T, Takamura H,Matoba T and Terao J(1998). HPLC method for evaluation of the free radical-scavenging activity of foods by using 1, 1-diphenyl-2-picrylhydrazyl. *Biosci Biotechnol Biochem*; **62(6):** 1201-4.

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